

Forestland Interpretations

Forestland interpretations are important to good management. The management of trees begins with an understanding of the soil where they grow or are to be grown. Some soils are very suitable for growing wood crops; others barely support tree cover. Different tree species may vary in production on the same soil.

Forestland interpretations should be used to assist land users in planning, installing, and maintaining forestland management systems.

Forest Management and Productivity

The Forestland Management and Productivity tables presents information about suitable for producing timber for each soil map unit. Management concerns, which include hazard of erosion, equipment use, seedling mortality, and windthrow hazard, are listed by ratings of SLIGHT, MODERATE, or SEVERE. Information on potential productivity includes plant competition, common trees, site index, productivity class, and trees to plant.

Management Concerns

EROSION HAZARD - the risk of erosion is slight if the expected soil loss is small; moderate if some measures are needed to control erosion during logging; and severe if intensive management or special equipment and methods are needed to prevent excessive loss of soil.

EQUIPMENT LIMITATION - A rating of slight indicates that use of equipment is not limited to a particular kind of equipment or time of year; moderate indicates a short seasonal limitation, or a need for some modification in management of equipment; and severe indicates a seasonal limitation, a need for special equipment or management, or a hazard in the use of equipment.

SEEDLING MORTALITY - The ratings are for seedlings from a good planting stock that are properly planted during a period of sufficient rainfall. A rating of slight indicates that the expected mortality of the planted seedlings is less than 25 percent; moderate - 25 to 50 percent; and severe - more than 50 percent.

WINDTHROW HAZARD - A rating of slight indicates that trees in wooded areas are not expected to be blown down by commonly occurring winds; moderate - that some trees are blown down during periods of excessive soil wetness and strong winds; and severe that many trees are blown down during periods of excessive soil wetness and moderate or strong winds.

PLANT COMPETITION - A rating of slight indicates little or no competition from other plants; moderate indicates that plant competition is expected to hinder the development of the fully stocked stand of desirable trees; and severe means that plant

competition is expected to prevent the establishment of a desirable stand unless the site is intensively prepared, weeded, or otherwise managed for the control of undesirable plants.

POTENTIAL PRODUCTIVITY - This is discussed under the ordination class symbol.

COMMON TREES - Trees that generally occur on the soil are listed regardless of economic importance.

SITE INDEX AND PRODUCTIVITY CLASS - These are discussed under ordination class symbol.

TREES TO PLANT - Trees that are suitable for commercial wood production and that are adapted to the soil.

See the National Forestry Manual, Subpart B for criteria used in rating management concerns.

This subsection includes:

- **(a) Forest Management (one or two tables)**

Camden County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
11D: Bardley-----	black oak----- post oak----- white oak-----	54 45 42	43 29 29	black oak, eastern redcedar, shortleaf pine, white oak
Gasconade-----	blackjack oak----- chinkapin oak----- eastern redcedar---- post oak-----	--- 41 27 ---	0 29 29 0	---
12A: Cedargap-----	black oak-----	66	43	black oak, shortleaf pine
13A: Cedargap-----	black oak----- black walnut----- green ash-----	66 --- ---	43 0 0	black oak, shortleaf pine
14B: Peridge-----	black walnut----- eastern redcedar---- northern red oak---- shortleaf pine----- white oak-----	--- 50 70 70 ---	0 57 57 114 0	black walnut, northern red oak, shortleaf pine, white oak

Camden County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
14C: Peridge-----	black walnut----- eastern redcedar---- northern red oak---- shortleaf pine----- white oak-----	--- 50 70 70 ---	0 57 57 114 0	black walnut, northern red oak, shortleaf pine, white oak
16D: Clarksville-----	black oak----- northern red oak---- shortleaf pine----- white oak-----	61 61 61 58	43 43 86 43	shortleaf pine, sweetgum, tuliptree, white oak
20C: Doniphan-----	black oak----- northern red oak---- white oak-----	63 61 59	43 43 43	black oak, shortleaf pine, sweetgum, white oak
22E: Gasconade-----	blackjack oak----- chinkapin oak----- eastern redcedar---- post oak-----	--- 40 27 ---	0 29 29 0	eastern redcedar
Rock outcrop-----	---	---	---	---

Camden County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
26: Moniteau-----	pin oak-----	70	57	black willow, eastern cottonwood, green ash, pin oak, silver maple, sweetgum, white oak, willow oak
29: Nolin-----	American sycamore---	---	0	black walnut,
	black walnut-----	---	0	cherrybark oak,
	cherrybark oak-----	97	143	eastern
	eastern cottonwood--	---	0	cottonwood,
	river birch-----	---	0	eastern white
	sweetgum-----	92	114	pine, sweetgum,
	tuliptree-----	107	114	tuliptree, white ash
30A: Kaintuck-----	American basswood---	---	0	American sycamore,
	American sycamore---	90	100	black walnut,
	black walnut-----	---	0	green ash,
	northern red oak----	---	0	northern red oak
	river birch-----	---	0	
	white oak-----	---	0	

Camden County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
31A: Razort-----	American sycamore---	85	86	black walnut, northern red oak, shortleaf pine, white oak
	eastern cottonwood--	90	100	
	northern red oak----	80	57	
	shortleaf pine-----	80	129	
	sweetgum-----	80	86	
	white oak-----	75	57	
32C: Viraton-----	black oak-----	60	43	black oak, shortleaf pine, white oak
	shortleaf pine-----	56	86	
	white oak-----	55	43	
33F: Knobby-----	---	---	---	---
Rock outcrop-----	---	---	---	---
34C: Gatewood-----	black oak-----	42	29	eastern redcedar, shortleaf pine
	eastern redcedar----	40	43	
	post oak-----	43	29	
	white oak-----	45	29	
34D: Gatewood-----	black oak-----	42	29	eastern redcedar, shortleaf pine
	eastern redcedar----	40	43	
	post oak-----	43	29	
	white oak-----	45	29	

Camden County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
35B: Lebanon-----	black oak----- shortleaf pine----- white oak-----	60 --- 55	43 0 43	black oak, shortleaf pine, white oak
37B: Hartville-----	white oak-----	55	43	eastern cottonwood, pin oak, tuliptree, white oak
38: Riverwash-----	---	---	---	---
40: Huntington-----	northern red oak---- tuliptree-----	85 95	57 100	black locust, black walnut, eastern white pine, tuliptree
41B: Plato-----	black oak----- shortleaf pine----- white oak-----	60 --- 55	43 0 43	black oak, post oak, shortleaf pine
42C: Gunlock-----	black oak----- northern red oak---- white oak-----	60 60 57	43 43 43	black oak, northern red oak, shortleaf pine, white oak

Camden County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
43F: Poynor-----	black oak----- shortleaf pine----- white oak-----	53 55 48	43 43 29	black oak
46F: Clarksville-----	black oak----- northern red oak---- shortleaf pine----- white oak-----	61 61 61 58	43 43 86 43	shortleaf pine, white oak
Gepp-----	black oak----- northern red oak---- shortleaf pine----- white oak-----	65 65 75 65	43 43 114 43	black walnut, northern red oak, shortleaf pine
47F: Niangua-----	black oak----- northern red oak---- white oak-----	56 --- 54	43 0 43	northern red oak, shortleaf pine
Bardley-----	black oak----- post oak----- white oak-----	54 45 42	43 29 29	black oak, eastern redcedar, shortleaf pine, white oak
48G: Rock outcrop-----	---	---	---	---
Bardley-----	black oak----- post oak----- white oak-----	54 45 42	43 29 29	black oak, eastern redcedar, shortleaf pine

Camden County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
M-W: Water-----	---	---	---	---
W: Water-----	---	---	---	---